

| Ref # | Hits  | Search Query  | DBs                       | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---------------------------|------------------|---------|------------------|
| L1    | 18    | (substrate or wafer or chip or plate) and (channel or trench or groove or microchannel) and ((first near fluid) and (second near fluid)) and (waveguide and core and clad\$6)                                 | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 10:18 |
| L2    | 55283 | "385"/\$6.cccls.  | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 09:45 |
| L3    | 19    | (substrate or wafer or chip or plate) and (channel or trench or groove or microchannel) and ((plurality or two or multiple) near fluid) and (waveguide and core and clad\$6)                                  | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 10:08 |
| L4    | 10    | L3 and L2   | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 10:08 |
| L5    | 2988  | (channel or trench or groove or microchannel) and (((plurality or multiple) near fluid) or (first near fluid) and (second near fluid)) and (waveguide or core or clad\$6)                                     | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 10:19 |
| L6    | 47    | L2 and (channel or trench or groove or microchannel) and (((plurality or multiple) near fluid) or (first near fluid) and (second near fluid)) and (waveguide or core or clad\$6)                              | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 11:41 |
| L7    | 20    | ("4583824" "4789228" "4988157" "5699462" "5921678" "5956005" "5960131" "5978527" "6055344" "6072924" "6170981" "6210128" "6231737" "6287520" "6306659" "6331073" "6331439" "6334676" "6337740" "6342142").PN. | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 11:06 |
| L8    | 4     | ("4505539" "4818052" "5181016" "6195478").PN.   | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 11:06 |
| L9    | 4     | ("20030012483" "4390403" "5795457" "6284113").PN.   | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 11:07 |
| L10   | 28    | L7 or L8 or L9  | US-PGPUB; USPAT; EPO; JPO | OR               | ON      | 2005/01/23 11:07 |

|     |       |   |                                 |    |    |                  |
|-----|-------|---|---------------------------------|----|----|------------------|
| L11 | 5     | L2 and (channel or trench or groove or microchannel) and (((plurality or multiple) near fluid) or (first near fluid) and (second near fluid)) and (waveguide or core or clad\$6) and electrodes | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/01/23 11:56 |
| L12 | 1     | "6320994".pn  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/01/23 12:47 |
| L13 | 10901 | 385/14,16-24,140.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/01/23 12:47 |
| L14 | 209   | 385/14,16-24,140.ccls. and fluid and electrode  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/01/23 12:48 |
| S1  | 2     | "10087264"  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/01/23 09:38 |
| S2  | 1     | "385"/\$6.ccls. and (kenney and vacca).in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/07/09 10:47 |
| S3  | 1     | "385"/\$6.ccls. and ( vacca).in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/07/09 10:47 |
| S4  | 12    | "385"/\$6.ccls. and ( kenney).in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/01/23 09:44 |